

SOUTH BAY TRS-80® USERS GROUP



DYNAMIC MEMORIES

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APRIL 1983

GRAPHICS...



South Bay TRS-80 User Group

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ALSO IN THIS ROSTER CENTERFOLD

SBUG meetings are held the third Tuesday of each month in the north east corner of Dyean's building at:

Time - 7:15 to 10:30 PM 5461 Patrick Henry Drive
Santa Clara, Ca

April 19, May 17, June 21

Topic of the month:

Graphics and the TRS-80

Features: The meeting will be chaired by Mike McHenry.

- 1) Bob Loudan will tell us about a super TRS-80 business graphics package that his company has developed for Radio Shack. Bob will demonstrate the package on a Model III with high resolution graphics.
 - 2) Mike McHenry will review the graphics software available for MX-80 printers with graphitek.
 - 3) Random session of questions and answers.

The topic for the May meeting will be computer recording media chaired by Sebri Kswesh. Juns will feature hardware modifications chaired by Eric Brewer. Don't forget the first Wednesday meeting on May 4th to discuss programming techniques, problems and answers. Bring your computer.

Send Newsletter articles to:

c/o Robert Byrd, Editor
South Bay TRS-80 User Group
P.O. Box 68116
Sunnyvale, Ca 94088

Deadline for the May newsletter is: 25 April 83. Please, send articles via modem, or saved on disc/tape. I will see that your media is returned to you. Thanks . . .

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April 1983

** Your Staering Committee **

Member	SBUG-88 Usernames	Phone
Discussion Leadsra:		
	Mike McHenry (MCHENRY)	(488) 245-4784
	Eric Brawer (BREWER)	(488) 252-9332
	Sabri Kawash (SABRI)	(488) 732-5484
Treasurer:		
	Larry Gunderaon (TREAS)	(488) 259-5349
Newsletter Editor:		
	Robert Byrd (EDITOR)	(488) 732-6775
Librarians:		
(disc)	Gerry McKee (GMCKEE)	(488) 926-4863
(tape)	Gary Dixon (GDIXON)	(488) 262-6937
(doc.)	Bill Richerson	(488) 257-8267
** Other key individuals **		
Assistant Editor:		
	Dava Fox (DAVEFOX)	(488) 255-3278
Public Relations:		
	Ron Carpenter (RON)	(415) 726-3487
Host Computer:		
	SBUG-88 (EVERYONE)	(488) 737-SBUG
SBUG-88 Sysops:		
	Robart Byrd (EDITOR)	(488) 732-6775
	Eric Brewsr (BREWER)	(488) 252-9332

If tha need ariaaa, feel fraa to give ons of us a call.

A NOTE OF THANKS TO
BOLMEB ENGINEERING, INC.

3555 Bouth 3200 West
Salt Laka City, Utah 84119 Ph. (881) 967-2324

It is my pleaura to announcc that Holmes Enginsaring haas contributad one of their Sprintar speedup kits to our host computer (SBUG-88). This has made doubla density posseable on the eight inch disc drivas.

I have writtan a raview of my axperiances installing this fine piece of hardware (see table of contants for page number). I highly recommand the Holmas Sprinter as ona the most economical ways to add life to your TRS-88 Model I/III. SBUG-88 feala like a differant computar with 5.36 Mhz made possible by Bolmes Engineering.

The support of their product speaks for itaelf with thair contribution.

I feel that I can comfortably speak for all the membars of SBUG and say. "THANK YOU HOLMES ENGINEERING, WE ENJOY AND APPRECIATE YOUR CONTRIBUTION!!"

Robert Byrd
EDITOR @ SBUG-88

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SKIMPY NEWSLETTER

I am sorry for the lack of material in this months newsletter. This is NOT caused by lack of contributions, because there were many! The main problem is the one ounce limit in mailing per newsletter. I felt, SBUG members would prefer to have a membership list (CENTERFOLD ROSTER) to help improve communications among members. And of course, this took eight pages of text away from this months publication.

Robert Byrd
EDITOR @ SBUG-80

RESULTS OF THE MEMBERSHIP SURVEY

About 51 percent of the current membership has returned the survey questionnaire that was distributed in the December newsletter. The results show that the average SBUG member has a Radio Shack Model I computer (69%), with 5" disk drives (88%), a Epson MX-80 printer (52%) with a Hayes Smartmodem (21%). The most popular uses of the computers are word processing (43%), business (29%), computer literacy education (21%), and games (19%). The average member has belonged to SBUG for 2 years and about one-third are willing to contribute to club activities by writing articles, giving talks, teaching and group buys.

In general, the members of SBUG have quite a large investment in hardware (\$2,500-\$3000) and use their computers for serious work and education. Surprisingly, only 5% of the members use cassette for program storage. Only one disk user reported using TRSDOS as the primary disk operating system. In contrast, NEWDOS80 is used by 72% of the members. CP/M use is on the rise with about 18% of the members using it now. The last survey was done two years ago. A comparison of results that survey with the current one is given below.

	March 1981	April 1983
Number of members	100	174
Number responding	81	86
Model I	98%	69%
Model II	4%	2%
Model III	6%	34%
Disk	82%	94%
Tape	16%	4%
Stringy	1%	3%
Modems	32%	70%

Number of members	100	174
Number responding	81	86
Model I	98%	69%
Model II	4%	2%
Model III	6%	34%
Disk	82%	94%
Tape	16%	4%
Stringy	1%	3%
Modems	32%	70%

The number of tape users has dropped from 16% to only 4 percent now. We often hear that tape users are being neglected by the club. Apparently they have either left

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the club, got disks, or just don't like to fill out surveys. The number of members with modems has increased from 32% to 70% currently, probably due to our excellent bulletin board.

The tables below summarize the survey results in more detail.

YEARS IN SBUG

years	number	percent
4 or more	10	12%
3	19	22%
2	25	29%
1	18	21%
New	14	16%

INTERESTS

Word Processing	37	43%
Business	25	29%
Personal Finance	21	24%
Computer Literacy	18	21%
Hobby	18	21%
Games	16	19%
Database	15	17%
Software Development	13	15%
Telecommunications	13	15%
Taxes	8	9%
Education	8	9%
Engineering	7	8%

COMPUTERS

Model I	59	69%
Model III	29	34%
LNW 8#	4	5%
Color Computer	3	3%
Model II	2	2%
Pocket PC 1	2	2%
Max 8#	1	1%

DISK AND TAPE STORAGE

5" Disk	76	88%
8" Disk	6	7%
Cassette	4	5%
Hard Disk	4	5%
Stringy Floppy	3	3%

PRINTERS

Epson MX-88	45	52%
Radio Shack LP xx	10	12%
DTC 300-382	5	6%
Microline 80-82	4	5%

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Others	34	40%
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MODEMS

Hayes Smartmodem	18	21%
Radio Shack I	9	10%
Radio Shack II	8	9%
Racal Vadic	3	3%
Signalman	3	3%
Others	15	17%

OTHER HARDWARE

Omkron 1	7	8%
Percom Doubler	6	7%
LNW Expansion	6	7%
LNW 5/8	4	5%
Omkron 2	3	3%
Alpha Joystick	3	3%

DISK OPERATING SYSTEMS

NEWDOS80	62	72%
DOSPLUS	14	16%
LDOS	11	13%
CP/M	8	9%
MULTIDOS8	4	5%

WORD PROCESSING

Scripsit	56	65%
Electric Pencil	16	17%
Superscripsit	7	8%
Lazywriter	6	7%
Wordstar	6	7%
Newscript	3	3%

LANGUAGES

Basic	86	100%
Assembly	25	29%
Fortran	7	8%
Forth	5	6%
Lisp	2	2%
APL	1	1%
Pilot	1	1%

TELECOMMUNICATIONS

Modem80	32	37%
ST80III	8	9%
Omniterm	6	7%
Sterm	3	3%

UTILITIES

TRS-80 MEMBERSHIP LIST AS OF 5 APR 83

ABRAHAMSON, ALAN	10 RICHLEE RD.	NORMWALK	CT	06851	83/81 FCUG
ALAVI, BEHAD	P. O. BOX 1955	SAN JOSE	CA	95109	292-6669
ALLEN, RICHARD C	172 COLLEGE AVE.	LOS GATOS	CA	95330	354-8190
ANDERSON, ROBERT B	514 LATONA CT.	SAN JOSE	CA	95111	281-8880
ANDERSON, ROGER	1279 CRESCENT TERRACE	SUNNYVALE	CA	94087	732-4307
ANDERSON, TON J.	91 ANGELA DRIVE	LOS ALTOS	CA	94022	941-1543
ANDERSON, WES	763 LA PARA AVE.	PALO ALTO	CA	94306	493-3330
ANDRES, DAVID	1198 AMALT DR.	MTN. VIEH	CA	94040	961-5225
ANTICOUNTI, STAN	7174 SANTA TERESA BLVD#1	SAN JOSE	CA	95139	578-8550
ARIA, RICHARD	1032 WHITEBICK DR.	SAN JOSE	CA	95129	83/
BABROCK, DEAN F.	400 CERVANTES RD.	PORTOLA VALLEY	CA	94025	851-8195
BARRETT, BARRY	3859 ASHRIDGE LANE	SAN JOSE	CA	95121	274-1427
BARRO, ROBERT	2019 DUVAL LN	HAYWARD	CA	94345	782-5081
BENNETT, WILLIAM C.	3270 NELENDY DR.	SAN CARLOS	CA	94070	595-2337
BERG, LAUREN V.	5145 HARVEST ESTATES	SAN JOSE	CA	95135	274-6869
BERSHADER, ILSE	937 KING PL.	STANFORD	CA	94305	493-1407
BIEBER, DENNIS L.	1630 OTTAWA CT. APT C	SUNNYVALE	CA	94087	730-5068
BLACK, RICHARD	1208 DANIEL CT.	NILPITAS	CA	95035	946-5806
BLAINE, DICK A.	22284 DE ANZA CIRCLE	CUPERTINO	CA	95014	257-6410
BODNAR, ELNER R.	5162 CORDOY LANE	SAN JOSE	CA	95124	266-1304
BREWER, ERIC	18894 PALO OAKS CT.	SARATOGA	CA	95070	252-9332
BREWSTER, CHARLES	149 PICCADILLY PL. #E	SAN BRUNO	CA	94066	871-9379
BROWN, ROBERT W.	780 NANNY AVE.	CAMPBELL	CA	95008	379-2774
BRIAN, LARRY	285 S. 12TH ST.	SAN JOSE	CA	95112	289-1519
BRYSON, JIN	10857 N. WOLF RD.	CUPERTINO	CA	95114	257-4390
BURKE, KEVIN	27060 OLD TRACE RD.	LOS ALTOS	CA	94022	83/82 CHEYVAN
BYRD, ROBERT J.	555 FRANCIS ST.	SUNNYVALE	CA	94086	732-6775

CONT'D

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FULTON, ROBERT	1510 ELKA AVE	SAN JOSE	996-2549	83/83
GEER, JOHN M.	617 VETERANS BLVD. NO 212	REDDWOOD CITY	94063	361-8000
GEORGE, BRIAN F.	3501 MURDOCH DR.	PALO ALTO	94306	494-0561
GIBSON, JIM	471 CHINOOK LN.	SAN JOSE	95123	578-0261
GLATHE, WILLIAM B.	6477 OAKCREST DR.	SAN JOSE	95120	268-7251
GUNDERSON, LARRY C.	1299 SIERRA CT.	SAN JOSE	95132	259-5349
GUTIERREZ, FRANK	771 COLLEEN DR.	SAN JOSE	95123	281-8596
HALL, EO H.	683 TOWNE MAY	PALO ALTO	94306	858-7467
HAMMACK, FRED	1571 EL CAMINO #10	MTN. VIEN	94040	968-7261
HEATHER, JOHN T.	1058 CELILO DR.	SUNNYVALE	94087	732-3276
HERBACH, MICHAEL J.	5392 GREAT OAKS DR.	SAN JOSE	95111	629-6949
HERING, THOMAS G.	1023 BURNDOD DR.	SAN JOSE	95120	977-0129
HOBART, TERRY	245 CERVANTES RD.	PORTOLA VALLEY	94025	851-3213
HOFMANN, RICHARD O.	1178 CARRIE LEE MAY	SAN JOSE	95118	264-2027
HOLEMAN, NORVEL	P O BOX 2346	HUTCHINSON	67501	FEB 3166438043
HODKER, ALLEN	1685 LOBELIA LANE	SAN JOSE	95124	265-8154
HOOPER, EDWARD F.	1025 HIGHLANDS CR.	LOS ALTOS	94022	961-3410
HOYTE, JOHN M.	3594 HAVEN AVE.	REEDWOOD CITY	94063	365-6567
HUGHES, JERRY H.	2116 BEL AIR AVE	SAN JOSE	95128	248-5367
HULL, JACQUES L.	2463 ELKA AVE.	MTN. VIEN	94043	963-8792
HUNTLEY, MRIGHT	2483 S. PARK LN.	SANTA CLARA	95051	248-5905
IRWIN, DAVID	2450 OCTAVIA #3A	SAN FRANCISCO	94109	673-7003
JANDINSKI, BERNARD	355 ANGEL AVE. #2	SUNNYVALE	94086	245-4160
JIBBY, WILLIAM	6105 SILBERMAN DR.	SAN JOSE	95120	268-0181
JOEL, ROBERT L.	1585 MARBURG MAY	SAN JOSE	95133	MAR 926-3999
JOHNSON, SAM W.	310 CHATHAM MAY	MTN. VIEN	94040	969-0228
JONES, NESLEY	806 BERRYESSA ST.	MILPITAS	95035	83/82 NES

MCGILL, ARTHUR	1085 IBERIS CT.	SUNNYVALE	CA	94086	243-8987	83/83
MCHENRY, MICHAEL	1030 RANGPUR COURT	SUNNYVALE	CA	94087	245-4704	83/79 MCHENRY
MCKEE, GERALD F.	926 CAPE BUFFALO DR.	SAN JOSE	CA	95133	926-4063	83/80 SMCKEE
MCLAUGHLIN, DAVE J.	12885 TEN OAK WAY	SARATOGA	CA	95070	867-5285	83/
NEUHAUS, HERMANN	12246 WOODSIDE DR.	SARATOGA	CA	95070	996-0304	83/
NEWMAN, DAVID E.	6658 MT. HOLLY DR.	SAN JOSE	CA	95120	268-6610	83/ PHONES
NEWMAN, JOHN	2355 CAMP BARKER RD.	REDFORD	OR	97501	MAR	83/83
NMDSU, CHIKUMA	2310 BLUEBELL AVE.	SAN JOSE	CA	95122	281-1772	83/82
OBERLING, FRED	120 LINCOLN DR.	SAUSALITO	CA	94965	332-0825	83/82
OGLE, JOHN S.	1472 PASHOTE CT.	MILPITAS	CA	95035	263-3798	83/
OLAFSSON, OLAFUR	95 GREEN VALLEY RD.	SANTA CRUZ	CA	95066	335-3224	83/82
OLSON, CHARLES R.	20832 GREENLEAF DR.	CUPERTINO	CA	95014	446-3450	83/83
OMAN, CHRIS K.	P.O. BOX 159	NAS MOFFETT FIELD	CA	94040	966-5461	83/82 CROMAN
PARKER, CASEY	38833 OVERAKER AVE	FREIGHT	CA	94536	793-2115	83/81
PATRICK, RICHARD	1334 NANCARROW CT.	SAN JOSE	CA	95120	997-7816	83/ PATRICK
PERKINS, JEFF K.	388 VIEWPARK CIR.	SAN JOSE	CA	95136		83/
PERRY, LARRY	28A CARLYN AVE.	CAMPBELL	CA	95008	378-2003	83/
PERRY, RANDOLPH	35879 ADOBE DR.	FREEMONT	CA	94536	792-0969	83/ PERRY
PHelps, SANDY L.	585 OAK ST.	MTN. VIEW	CA	94041	964-1642	83/81 PHELPS
PITRE, THOMAS J.	764 CLINTON PL.	SAN JOSE	CA	95126	APR 294-2256	83/83
PUTTERBERG, BILL	1621 WESTWOOD RD.	BURLINGAME	CA	94010	697-2335	83/81
RAMSEY, BILL H.	MUSIC DEPT. KNOLL 311	STANFORD	CA	94305	255-2854	83/79 BILLRAM
RICHERSON, BILL	1047 FOREST KNOLL	SAN JOSE	CA	95129	257-8267	83/80
ROCHE, CURT	380 LOUIS RD.	PALO ALTO	CA	91303	494-2443	83/81 CURT
RUSSO, MIKE J.	1428 GAUCHO CT.	SAN JOSE	CA	95118	266-3988	83/83
SAYRE, NICK	2001 ALAMEDA #175	SAN MATEO	CA	94403	574-8096	83/82 TIMSAYRE
SCHMIDT, EDWARD S.	1508 SANTA INEZ DR.	SAN JOSE	CA	95125	264-2792	83/80 SCHMIDT

WARNER, DANIA	1687 FLICKINGER AVE.	CA	SAN JOSE	83/B3
WEBB, IAN A.	20621 CANYON VIEW DR.	CA	SARATOGA	259-8889
WEST, E. J.	1029 JOHNSON AVE.	CA	SAN JOSE	83/B1 IANWEBB
WEXLER, JONATHAN D.	986 STARFLOWER CT.	CA	SUNNYVALE	83/B1
WHITELEY, STEPHEN	358 AVENIDA ARBOLES	CA	SAN JOSE	83/B3
WILEY, MARVIN D.	2019B KNOLLWOOD DR.	CA	SARATOGA	867-9533
WILSDON, CURTIS	20251 MERRICK DR.	CA	SARATOGA	257-8752
WITTEKIND, BART	1820 SARATOGA AVE.	CA	SAN JOSE	736-0504
WONG, FRED J.	229 SO. ASHTON AVE.	CA	SARATOGA	227-4337
WRIGHT, FRED	10112 MELODY PARK DR.	CA	SARATOGA	255-1438
YING, BENJAMIN	1923 LUBY DR.	CA	SARATOGA	867-6976
ZIEGLER, ALEX	P O BOX 1358	CA	SANTA CRUZ	379-5826

TOTAL MEMBERSHIP = 180

SCHULZER, HERM	3927 ALCALA DR.	CARMELE	CA	95008	866-5731
SCHWARTZ, ALLAN	919 CAPE GEORGE PL.	SAM JOSE	CA	95133	926-5307
SHEKHEVICH, PETER	1456 CAMINO RÓBLES CT.	SAN JOSE	CA	95120	269-1194
SILLS, MARK L.	F.O. BOX 100	HOLLISTER	CA	95023	637-4434
SMITH, LELAND C.	3732 LAGUNA AVE.	PALO ALTO	CA	94306	493-9386
SMITH, VIGO N.	1956 SOLANA DR.	SARATOGA	CA	95070	996-7896
SOLEY, CLYME	5541 CRYBARI CIR.	SAM JOSE	CA	95135	274-2017
STAFFORD, RODNEY	5155 SHADON ESTATES	SAN JOSE	CA	95135	238-4671
STARKE, STEVEN A.	21579 EDWARD WAY	CUPERTINO	CA	95014	255-4610
STEPHENS, DON	18762 CASA BLANCA LN.	SARATOGA	CA	95070	867-1443
STOJANOVICH, JOHN R.	16880 KENNEDY RD	LOS GATOS	CA	95030	356-6452
STONE, BOB	19645 MORTHAMPTON DR.	SARATOGA	CA	95070	255-6804
STORMBERG, BOB	4691 CASTLEWOOD	SAN JOSE	CA	95129	255-6770
STROUD, GEORGIANA	12559 PARKINGTON AVE.	SUNNYVALE	CA	94087	732-4192
TASHIAN, DAVID R.	177 HEMLOCK CT.	PALO ALTO	CA	94306	493-9494
TERRAZAS, CARLOS C.	689 TARRYTOWN CT.	SAN JOSE	CA	95136	224-3595
THOMAS, ROSS D.	95 CHURCH ST. # 2202	LOS GATOS	CA	95030	354-5816
THOMPSON, BERNARD	20738 WOODWARD CT.	SARATOGA	CA	95070	867-7455
THOMPSON, JIM	13824 ESPADA CT.	SARATOGA	CA	95070	83/ SIXTYSIX
THOMPSON, RONALD R.	238 ERIE WAY	CAMPBELL	CA	95008	378-1723
THOMSON, RICHARD D.	4420 CALLE DE FARRAR	SAN JOSE	CA	95118	269-6439
THRUBER, GENE	64B NAVAJO CT.	SAN JOSE	CA	95123	629-2289
TRAINER, RICHARD	744 SAM ANTONIO RD.	PALO ALTO	CA	94303	494-3565
TRAN, BICH	5138 FOREST GLEN	SAN JOSE	CA	95129	255-4504
TURLEY, CHARLES W.	224 MANITOBA TERR.	FREMONT	CA	94538	656-4277
VAUGHN, GLEN	224 SMITHWOOD ST.	MILPITAS	CA	95035	83/ GLENN
VANPELT, JAMES R.	763 SAN JUSTO CT. APT 7	SUNNYVALE	CA	94086	83/83 MIKE UP
WAHLER, JOHN	3285 CATALINA AVE.	SANTA CLARA	CA	95051	248-7612
WARD, CHARLES	873 TRENTON	SUNNYVALE	CA	94087	83/83

KHMDA, REIN	1180 30. MARY	LA	Y408/	1/30-7464	83/82 PETEK
KANASH, SABRI	1016 HAVER CT.	CA	94087	732-5484	83/ SABRI
KELLY, WILLEAM D.	282 BLUEFIELD DR.	CA	95136	629-4829	83/83
KEPPEL, ROBERT D.	4644 WINDING WAY	SAN JOSE	95129	253-5928	83/82
KERRIGAN, VINCENT	452 LDS ENCINDS ST.	SAN JOSE	95134	262-4687	83/
KINCHELDE, BOB	26830 ELENA RD.	LDS ALTS	94022	948-0682	83/
KING, FRED C.	15159 MONTALVO RD.	SARATOGA	95070	734-8995	83/ FOX
KREHBEL, COURTNEY	1942 SEA VILLAGE DR.	CARDIFF BY THE SEA	92007	262-4239	83/
KROMMENHOEK, JACOB A.	948 HORCAJO CIRCLE	MILPITAS	95035	493-1138	83/ JAKE
LAMB, EMMET	817 TOLMAN DR.	STANFORD	94305	668-5043	83/83 ()
LAMBERT, DAVID L.	2040 FELL ST.	SAN FRANCISCO	94114	263-1623	83/83
LARSON, MILD O.	115 BIXBY DR.	MILPITAS	95035	494-7171	83/83
LEE, DONALD V.	663 EHORHORN #2	MTN. VIEW	94041	263-9294	83/
LEE, GIL S.	929 JUNGFRAU CT.	MILPITAS	95035	MAP 926-3999	83/83
LEE, JDEL R.	1585 MARBURG WAY #4	SAN JOSE	95133	684-1617	83/ TED
LESTER, TED	P.O. BOX 8140	SANTA CRUZ	95061	867-1904	83/ LOUDEN
LDODEN, ROBERT	21110 SULLIVAN WAY	SARATOGA	95070	252-4491	83/82 JLYNCH
LYNCH, JOHN & DONNA	984 ROCKBAGLE DR.	SAN JOSE	95129	629-6225	83/83
MACK, BERT	4775 PLAIN FEILD DR.	SAN JOSE	95111	238-5189	83/ MARRAZZO
MARRAZZO, JOE	2888 STARHOPE DR.	SAN JOSE	95121	266-1482	83/
MARSHALL, BOB N.	5068 HONES LANE	SAN JOSE	95118	727-0555	83/83
MARTIN, JEREMY	10139 S. BLANEY AVE ♀ F	CUPERTINO	95014	968-1268	83/
MASON, BDB	1829 WALSH AVE.	SANTA CLARA	95050	261-8884	83/81 CHE7
MAUCH, PAUL	1815 WALNUT DR.	MTN. VIEW	94040	735-1126	83/
MEURER, CHET G.	1671 MILROY PL.	SAN JOSE	95124	379-5944	83/80
MIRDOSHICHENKO, ALEX	1566 MURRE LN.	SUNNYVALE	94087	MAR 378-5190	83/83 MALTNC
MORRAY, ROBERT	3404 MERRIMAC DR	SAN JOSE	95117	MAR 724-2659	83/83 ()
MCALL, WALTER A.	2160 S. WINCHESTER BLVD.	CAMPBELL	95008	MAR 724-2659	
McCARLEY, JOHN T.	427 ALLAN LN.	SAN JOSE	95076		

CARPENTER, RONALD	15 LIGHOUSE ROAD	HALFNIGHT BAY	CA	94019	726-3487	83/79 RON
CARRE, DON	21100 SUNNIT	LOS GATOS	CA	95030	354-2767	83/79 CARRE
CARSO, BRUCE	3798 HAWK DR.	SANTA CLARA	CA	95051	554-0666	83/83 CORVIN
CHABRAYA, KENNETH	2630 PAGANINI AVE.	SAN JOSE	CA	95122		83/82 IMCO
CHAMBERLAIN, CONRAD	1469 VALCARTIER DR.	SUNNYVALE	CA	94087	736-2208	83/80 CHAMBLIN
CHAMBERLIN, DICK R.	12384 PRISCILLA LN.	LOS ALTOS HILLS	CA	94022	948-7799	83/82
CHETLEY, RICHARD	100 N. WINCHESTER BLD 200	SAN JOSE	CA	95128	248-8770	83/82 PHANTON
CHITWOOD, ANN	1971 SANTA ROSA CT.	SANTA CLARA	CA	95051	243-2166	83/83
CHOW, KAN W.	1031 CLYDE AVE. NO 150	SANTA CLARA	CA	95050	988-5022	83/80 CHON
CLAYTON, JIN	P.O. BOX 02500	PORTLAND	OR	97202	(800) 452-2444	83/82
COFFMAN, PHILLIP A.	1016 AKIO WAY	SAN JOSE	CA	95120	997-0247	83/ CAP
COPE, JERRY	4313 MARLOW DR	SAN JOSE	CA	95124	266-2492	83/82 JERCO
CRANE, JOHN N.	5886 TEXAS CT.	SAN JOSE	CA	95120	MAR 268-7317	83/83 ()
CRIVELLA, DENNIS E.	5676 BUTANO PARK DR	FREMONT	CA	94538	651-4373	83/83
DAVIS, RALPH	3670 HAIG ST. #3	SANTA CLARA	CA	95050	727-3310	83/82
DEVENDORF, BRYAN	P.O. BOX 6302	STANFORD	CA	94305	494-8500	83/79
DINKEY, JAMES	3380 CORK OAK WAY	PALO ALTO	CA	94303	497-9307	83/80 JHDWIK
DIXON, GARY	1973 GRAND TETON	MILPITAS	CA	95035	262-6937	83/ 6DION
EARLEY, MARTIN	1950 EATON AVE	SAN CARLOS	CA	94070	592-1950	83/ MARTY
EICHEL, RICHARD	1207 PALAMOS AVE	SUNNYVALE	CA	94086	738-3472	83/82
FEHRENBACK, PAUL	1798 COMMODORE DR.	SAN JOSE	CA	95133	251-3743	83/
FLIBUSH, DAVID K.	3877 HANCOCK DR.	SANTA CLARA	CA	95051	248-7565	83/81 DAVIDF
FLORES, EDWARD	15121 JOANNE AVE	SAN JOSE	CA	95127	258-4313	83/83
FORBES, ROSS W.	P.O. BOX 1	LOS ALTOS	CA	94022	948-5193	83/81 FORBES
FORRESTER, FORBES B.	2035 SHELLBACK PL	SAN JOSE	CA	95133	928-3779	83/83
FOX, DAVID	5450 MAYNE AVE. # 15	SAN JOSE	CA	95129	255-3270	83/81 DAVEFOX
FRANK, BARRY	15195 ALMA JO CT.	MONTE SERENO	CA	95030	395-7211	83/83 BARRY
FRENZEL, JOHN	629 LISA MAY	CAMPBELL	CA	95008	244-6427	83/

April 1983

Superutility	14	15%
Trakcess	3	3%
Tasmon	3	3%

SPREAD SHEET

Visicalc	47	55%
Supercalc	2	2%

CONTRIBUTE TO CLUB ACTIVITIES

Newsletter Article	29	35%
Reviews	24	28%
Talk	18	19%
Teach Class	14	15%
Group Buy	10	11%

Thanks to those who filled out the survey. A detailed listing of the data takes about 27 pages, but perhaps we can publish portions of it, say the hardware, in the newsletter. I am working on a program to have the interactive database online on SBUG-80 so we can keep it current. Send me your completed survey, if you haven't done it yet, and I will add it to the database. Thanks also to those that have offered to contribute to the club. We will be in touch with you.

Mike McHenry
MCHENRY @ SBUG-80

HOUPING UP YOUR TRS-80 MODEL I

INTRODUCTION

Are you tired of the 1.77 MHz clock in your TRS-80 Model I? Have you ever wished you could speed up your graphic programs? Wouldn't it be great to have double density on your 8 inch disc drives. There is a solution, and you can have all the features mentioned above. All you have to do is speedup your TRS-80 to 3.55 MHz, or faster, and all this is yours!

There are several speedup boards on the market, and they all work well when installed properly. The main difference in the modifications is ease of installation. The most popular of the speedup kits are the Archbold and the Holmes; therefore, I will limit my discussion to these two boards. Perhaps someone else in the club has had experience with other speedup modifications and would like to write us another review.

THE ARCHBOLD

South Bay TRS-80 Users Group

Augh, what a mess! The Archbold kit requires much modification to your system. The kit requires traces to be cut and an experienced steady hand with a soldering iron. I don't recommend this kit to those who have had little experience with hardware.

There is, however, a handy feature that might encourage many to opt for the Archbold board, a multi-colored LED that replaces the conventional red LED now existent on your Model I keyboard. The LED changes colors depending on the speed of the system. This indicator could be handy when running software that is speed dependent such as games. I would think that FROGGER at 3.55 MHz might be exciting, but tough for sure!

THE HOLMES

Relief at last! This kit cures all the agony of the Archbold. There are only five wires to connect and one trace to cut in the keyboard. The wires connect using solderless clips, so there is no need to bring out the soldering iron!

Most E/I's (Expansion Interfaces) have a date delay line ceased by \$37. For an additional \$10 Holmes will include a replacement for this chip, so the E/I can handle the additional speed.

If you have an older E/I, which has the buffer cable, the speedup modification may be a little more complicated. If you have any questions or problems make a quick call to Holmes Engineering. They will be happy to share with you their experiences. The phone number for Holmes Engineering is included with the documentation.

This Holmes speedup kit includes some resistors, which they recommend, for soldering across your RAM chips if they are the slower 400-450 ns type. Don't do it!! RAM is very cheap these days. I recommend that you buy new 200 ns chips, and replace your older slower RAM. Remember, check the RAM in your E/I also.

INTERFACE WITH DISC OPERATING SYSTEM

A final modification to consider is whether to have a switch for setting high or low speed during disc I/O (input/output). I chose not to have the switch, because NEWDOS/80 is my primary operating system. NEWDOS/80 has the SYSTEM option "BJ=2" (use "BJ=3" when running at 5.36 MHz), which allows the disc I/O to speedup also. Instead of the switch, I installed the 4.7k resistor across U-10 as suggested by Holmes. Why would I mess with TRS-DOS when I have a beautiful modification like the Holmes?

EIGHT INCH DISC OPERATION IN DOUBLE DENSITY

April 1983

With the 3.55 MHz available to your machine, you should be able to have double density on your 8 inch drives. Again, with NEWDOS/80 this is easy. Set the PDRIVES as follows:

Single Sided Double Density (8 inch disc)

TD=F TC=77 SPT=26 TSR=1 GPL=3

CAUTION!! Many 8 inch disc drives will work with "TSR=0", but once you go to double speed the track stepping pulse is also reduced. Therefore, you must make the "TSR=1" to give you the 5 ms stepping rate.

CONCLUSION

The Holmes speedup board is great! If you wish to increase the capabilities of your Model I/III look into installing this fine piece of hardware. Follow the instructions carefully, and you should have little if no problems.

Robert Byrd
EDITOR @ SBUG-80

ECLECTIC PLAGIARISM

Try running that title through your spelling checker program! Seriously, I am going to present a few items that have been gleaned out of reading some of the newsletters that our club gets from other user groups in exchange for our newsletter. The ground rules seem to be that other user groups are free to use items if they are properly credited.

On a regular basis, I will try to pick out a few items of possible interest. At the same time, I will try to get the sending and receiving of newsletters organized and properly catalog the newsletters into the documentation library so others can read them.

This month things are somewhat hurried, as I didn't get the newsletters. So in an attempt to help with some newsletter material I have picked a few BASIC programs that might be interesting.

If you want a copy of the programs, better than typing them, they will be available on the bulletin board. Have a friend download them for you if you don't have bulletin board capabilities.

TICTOC/BAS

This is from the User's Group of Delaware County, Prospect Park, PA; TUG - DC is the name of their

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newsLetter. January 1983 newsletter is the source.

They represent this as a major breakthrough! A \$4.95 digital clock that only uses \$2000 worth of computer hardware.

Lines 10-60 do housekeeping and graphic set-ups for the digital numbers. 70-120 pick up hours, minutes and seconds from TIME\$ of DOS. Line 130 prints the clock in the form HH MM SS. 140 routes back to the next update of TIME\$.

I have run it fine on Model III NEWDOS80 V2 and the author says it should run on other DOS which support the TIME\$ function.

```
5 'PROGRAM FROM TUG-DC, DELAWARE COUNTY USER'S GROUP (PA)
6 'NEWSLETTER, JANUARY 1983, PG. 6
10 CLEAR300:DEFSTR#-Z:DEFINTJ,K
20 CLS
30 M=CHR$(26)+STRING$(4,24)
40 X=CHR$(120):Y=CHR$(131):Z=CHR$(191)
50 A=X+Y+X+X:B=X+X+X+Y:C=X+Z+X+X:D=X+X+X+Z:E=Y+Y+Y+Z:
F=Z+Y+Y+Z:G=Z+X+X+Z:H=Z+Y+Y+Y:I=Y+Y+Y+Y
60 N(0)=P+M+G+M+I:N(1)=C+M+C+M+A:N(2)=E+M+H+M+I:
N(3)=E+M+E+M+I:N(4)=G+M+E+M+B:N(5)=H+M+E+M+I:N(6)=H+M+F+M+I:
N(7)=E+M+D+M+B:N(8)=F+M+F+M+I:N(9)=F+M+E+M+I
70 J1=VAL(MIDS(TIME$,10,1))
80 J2=VAL(MIDS(TIME$,11,1))
90 J3=VAL(MIDS(TIME$,13,1))
100 J4=VAL(MIDS(TIME$,14,1))
110 J5=VAL(MIDS(TIME$,16,1))
120 J6=VAL(MIDS(TIME$,17,1))
130 PRINT#320,N(J1)::PRINT#336,N(J2)::PRINT#340,N(J3):::
PRINT#356,N(J4)::PRINT#360,N(J5)::PRINT#376,N(J6)
140 GOTO70
```

The following two items are from the Voice of the '80 Newsletter, January 1983, Vol 3, No. 8, Page 14 (Fairfield County TRS-80 Users Group, Norwalk, CT. The author of the material is Alan Abrahamson.

B O X E D I N BORDER/BAS

In response to the request for a program that would be fast, but not require machine code the following program was given. This program is a sample of a technique that will draw a border around the screen very rapidly. It uses space compression codes to get 1024 screen bytes into a 240 byte printable variable. The code was developed by Alan Abrahamson and Cliff Ogilvie.

When using it, you should print your text using PRINT# rather than the regular PRINT statements which will destroy the border.

```

10 REM FROM VOICE OF THE '83 NEWSLETTER, JANUARY 1983
20 REM VOLUME 3, NO 8, PAGE 14,15
30 REM CODE by ALAN ASRAHAMSON AND CLIFF OLGIN
40 REM CLEAR SOME STRING SPACE AND DEFINE S AS A STRING
50 CLEAR 1888: DEPSTR S
60 REM BUILDS THE SCREEN IN 248 BYTES INTO VARIABLE S
70 S=CSR$(191)+STRING$(61,143)+CHR$(191)+" ";
S1=CSR$(191)+CHR$(253)+CHR$(191)+" ";
S1=S1+S1+S1+S1+S1+S1+S1+S1+S1+S1+S1+CHR$(191)+STRING
$(61,188)+CHR$(191): S=CHR$(28)+S+S1
80 REM PLACE A HEADING IN THE DPPER BORDER BOX AFTER
PRINTING THE SCREEN
90 PRINT S;:PRINT#78,"THIS IS WHERE YOU PUT YOUR HEADINGS
FOR EACH SCREEN";
100 REM ENDLESS LOOP TO HOL THIS SCREEN IN PLACE FOR DEMO
110 GOTO110

```

E D T A S M T O S C R I P S I T
EDTASM/BAS

The following program can be used to "masaga" an EDTASM file into an ASCII file to allow it be loaded into SCRIPSIT in order to print it out in a "pretty" form. It could be used, for example to format a file for newsletter printing using SCRIPSIT to control the margins, etc. It looks like a straightforward way to do some of the things that we have been using "SPOOL" and "SPOOLSET" to do.

The program will get around the problem that SCRIPSIT has with the right arrow tab character which is recognized by EDTASM and not by SCRIPSIT.

```

1 REM SOURCE: VOICE OF THE '83 NEWSLETTER, JANUARY 1983,
VOL 3
2 REM NUMBER 8, PAGE 15 PROGRAM BY ALAN ABRAHAMSON
5 REM EDTASM/TXT (CREATE ASCII FILE FROM EDTASM FORMAT)
7 CLEAR 1888:DEFINT A-Z:PI=1
10 PRINT "WHAT IS THE NAME OF THE EDTASM SOURCE FILE"
11 INPUT "GIVE NAME ** WITHOUT ** EXTENSION ";I$:PRINT
12 INPUT "WHAT IS THE EXTENSION? (PART AFTER THE /"
);X$:PRINT
30 I$=Z$+"/*"+X$:OPEN "I",1,I$:O$=Z$+"/TXT":OPEN "O",2,O$
40 LINE INPDT #1,A$
50 IF I=LEN(A$) AND RIGEST$(A$,1)=CHR$(61) THEN 120
60 IF PI THEN AS=MIDS$(A$,8):PI=0
70 AS=MIDS$(A$,7)
80 D=INSTR(A$,CHR$(9)):IF D>0 THEN 100
90 PRINT A$:PRINT #2,A$:GOTO40
100 E=1+8*(INT((D-1)/8)+1)-D
110 A$=LEFT$(A$,D-1)+STRING$(E," ")+MIDS$(A$,D+1):GOTO80
120 PRINT:PRINT"END OF FILE":CLOSE

```

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~~FIRST CLASS MAIL~~